



**Project No:** MCC001901030201  
**Project:** Final Remedial Investigation  
**Client:** AFCEE  
**Location:** Site 24 - Vandenberg AFB  
**Northing:** N/A

**Borehole ID:** HGL22  
**Date:** 10/24/2002 *24-PMW-B*  
**Geologist:** M. Jackson *24-MW-BA*  
**Checked By:** D. Smith, R.G.  
**Ground Surface Elevation(ft msl):** N/A  
**Easting:** N/A

SUBSURFACE PROFILE					SAMPLE			Water Level	Remarks
Depth	Symbol	Description	USCS	Elevation	Recovery %	Blow Counts	PID (ppm)		
2		<b>Clayey sand</b> Moderate yellow brown, moist, fill	FL						
4		<b>Poorly graded sand</b> Dark yellowish brown to moderate yellowish brown, moist, soft, 100% fine grained with trace silt	SP						
6					100	14/16/19	1.4		
8									
10					50	42/50 for 5"	2.6		
12									
14		<b>Sand with clay</b> Pale yellowish brown with dark yellowish brown mottling, hard, moist	SC SP						
16					80	25/50	13.1		1655 Set temporary well screen at 17'-21' bgs. Pulled back to 16' to expose screen. Boring allowed to recharge overnight.  10/24/02 0720 Collected groundwater samples for VOCS 8260B, TPH 8015M, and Diesel 8015M.
18									
20					30	50/50 for 2"	11.5		
22									
24									
26		<b>Poorly graded sand</b> Pale yellowish brown, very moist, soft, 100% fine grained sand with trace silt			50	24/50 for 3"	1.5		
28									
30					40	15/50 for 1"	3.5		
32									
34									
36					60	46/50 for 3"	2.5		
38									
40					60	38/50/50 for 1"	2.7		

Drilled By: Layne Christensen

Drill Method: Dual Tube Percussion

Drilling Equipment: AP-1000

Sampling Equipment: CA Mod Split Spoon

HydroGeoLogic, Inc.  
 4600 Northgate Blvd., Suite 207  
 Sacramento, CA 95834

(916) 614-8770 FAX (916) 614-8775

Boring Diameter: 40"

Total Depth Drilled: 60'

Sheet: 1 of 2



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SUBSURFACE PROFILE				SAMPLE			Water Level	Remarks
Depth	Symbol	Description	USCS	Elevation	Recovery %	Blow Counts	PID (ppm)	
42		<b>Clayey sand</b> Pale yellowish brown mottled with dark yellowish orange, moist, hard, 55% fine grained sand, 45% clay	SC		60			Set temporary 2" well.  1100 Collect groundwater sample (HGL22-GW39).
44			SW					
46		<b>Gravelly sand</b> Pale yellowish brown, very moist, soft, 70% fine grained sand, 30% gravel (1/4")	SP		67	36/50 for 3"	2.0	
50		<b>Poorly graded sand</b> Pale yellowish brown, very moist, soft, 100% fine grained sand			70	40/50 for 4"	2.0	1120 Re-setup over boring.
54		10% dark yellowish orange mottling (iron oxide) @ 50'						
56		Pale yellowish brown to dark yellowish orange and saturated @ 55'			60	28/50 for 3"	3.1	1230 Set temporary well at 60'. 1350 Collect groundwater sample at 60' (HGL22-GW60).
58		<b>Sand with gravel</b> Pale yellowish brown to dark yellowish orange, very moist, medium to coarse grained sand with 20% rounded gravel (red, chert)	SW					
60								Boring abandoned with a 20:1 slurry of cement and bentonite.
62								
64								Permanent monitoring wells 24PMW8 and 24MW8A placed adjacent to this boring.
66								
68								
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72								
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80								

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Boring Diameter: 10"

Total Depth Drilled: 60'

Sheet: 2 of 2